

## Vibracores

- TI Coastal contracted Athena Technologies to collect Vibracores in Banks Channel.
- A total of 39 additional vibracores were collected in Banks Channel



**Borrow Area-Banks Channel** 

# Vibracore Analysis

- 39 vibracores were photographed, described and sampled in order to determine if the material in Banks Channel was beach compatible.
  - Grain size analysis through sieving
  - Calcium carbonate testing through acid digestion





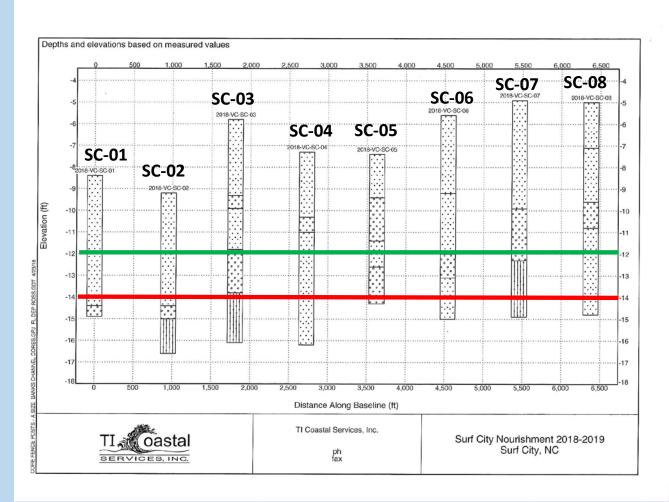


#### Dredge Depth 12+2 MLW

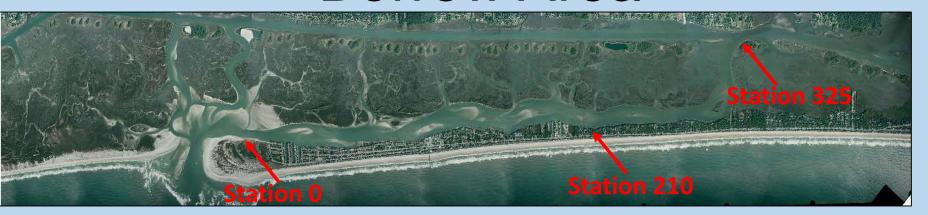
12 MLW \_\_\_\_\_

14 MLW \_\_\_\_\_





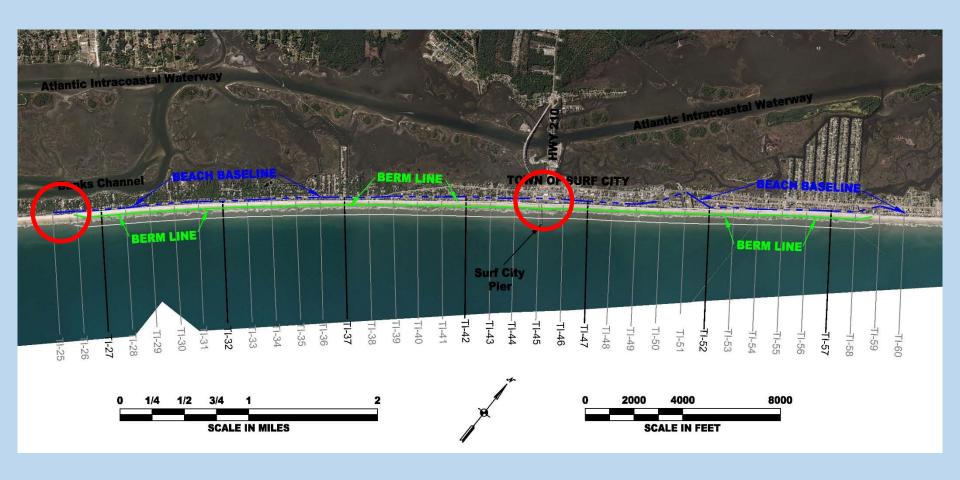
## **Borrow Area**



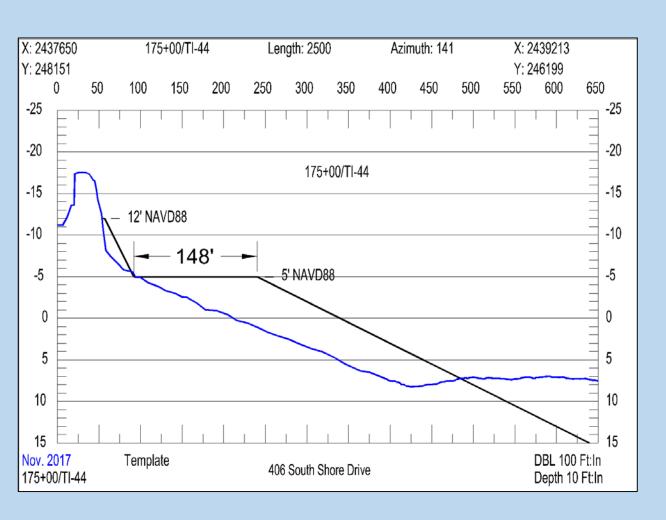
- Borrow area volume is 1,779,200 cubic yards
  - Banks Side Channel 1: 26,400 cubic yards
  - Banks Side Channel 2: 30,300 cubic yards
  - Banks Channel Station 210 to 0: 1,100,000 cubic yards
  - Banks Channel Station 210 to 325: 622,500 cubic yards

Location	Mean (mm)	% of Calcium Carbonate
Banks Side Channel 1	0.26	10.73
Banks Side Channel 2	0.33	13.6
Banks Channel Station 210 to 0	0.37	19.3
Banks Channel Station 210 to 325	0.29	13.6
Native	0.25	6.6

## Area of Nourishment



### TI Coastal Design – Option 1



#### **Project Parameters**

Berm 145' wide @ 5' NAVD

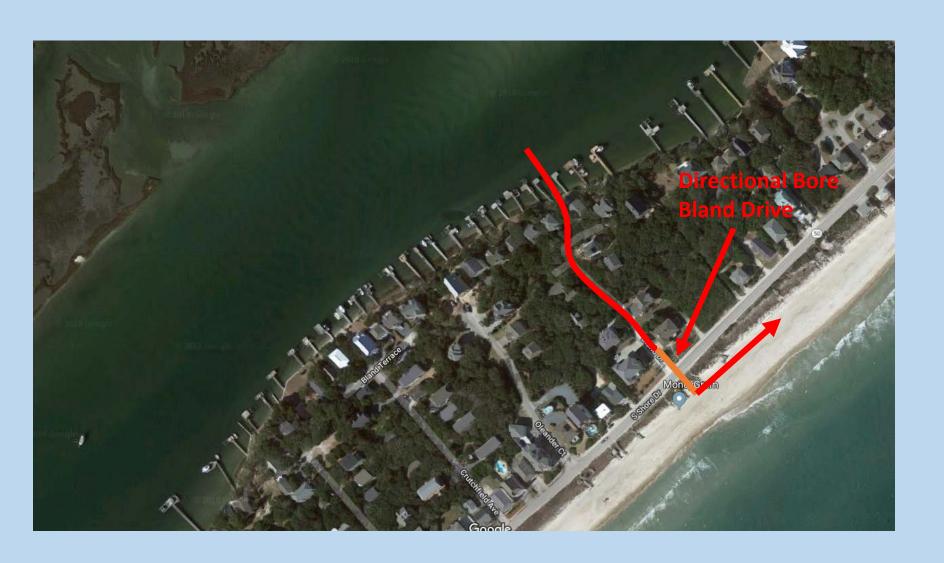
**Dune Face Dressed** 

1:5 Dune Slope

1:20 Beach Slope

2 Million CY Beachfill from Back Channel System

# Island Crossing



### **Tasks Accomplished**

Conduct Beach Monitoring Survey

Conduct Sediment Compatibility Analysis

Design Beach Template

Prepare Environmental Assessment

## **Timeline**

Submit Permit Application – October 2018

Agency Permitting – 6 to 9 months

Bids – May/June 2019

Construction - Spring 2020

